



Food chemists routinely use AccuStandard's analytical reference standards for their food analysis. These include lipid, vitamin, preservative and antimicrobial standards. Each standard is methodically prepared, undergoes various quality control analyses and procedures, and is then packaged under the strict ISO guidelines.



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Melamine

Analysis for Melamine in pet food, formula milk, and other foodstuffs can now be more accurate and reliable with the Melamine Reference Standards Set: Melamine, Ammeline, Ammelide, Cyanuric acid, the method recommended Internal Standard, a column clean-up solution, and a Silylating Reagent.

FDA-PROP-001-SET		5 x 1 mL, 2 x 5 mL	
		Cat. No.	1 mL
Melamine	1000 µg/mL in Diethylamine:Water (20:80)	FDA-PROP-001A	
Ammeline	1000 µg/mL in Diethylamine:Water (20:80)	FDA-PROP-001B	
Ammelide	1000 µg/mL in Diethylamine:Water (20:80)	FDA-PROP-001C	
Cyanuric acid	1000 µg/mL in Diethylamine:Water (20:80)	FDA-PROP-001D	

Internal Standard

FDA-PROP-001-IS 1 x 1 mL
1000 µg/mL in Pyridine

2,6-Diamino-4-chloropyrimidine

Silylating Reagent

FDA-PROP-001-DER 1 x 5 mL
At stated Vol. %

BSTFA [bis(trimethylsilyl)trifluoroacetamide] 99
TMCS 1

Column Clean-up Check

FDA-PROP-001-CHK 1 x 5 mL
At stated Vol. %

Sylon BFT 50
Pyridine 50

EFSA for Isopropylthioxanthone (ITX)

Responding to the hazard found in Italy, France, Spain, and Portugal, we have formulated Isopropylthioxanth-9-one (a photographic chemical) found in baby milk in Italy. The 2-isomer as well as the technical mixture also contains the 4-isomer.

2-Isopropylthioxanthone (ITX)

EFSA-ITX-01 1 x 1 mL

1.0 mg/mL in Isooctane

2-Isopropylthioxanth-9-one

Isopropylthioxanthone (ITX) mixed isomers

EFSA-ITX-02 1 x 1 mL

1.0 mg/mL in Isooctane

2-and 4-Isopropylthioxanth-9-one



Imidazole Standards (caramel coloring)

Over the past several years, there has been increased scrutiny of the caramel coloring used in food products, particularly cola-type soft drinks. There is concern for 4-methyl imidazole (4-MEI) that is created during the caramel coloring synthesis process. The concern arises because 4-MEI has been reported to be carcinogenic in high doses.

Compound	CAS	NEAT		SOLUTION	
		Cat. No.	Unit	Cat. No.	Unit
4-Methylimidazole (4-MEI)	822-36-6	FAC-001N	100 mg	FAC-001S-T	1 mL
1-Methylimidazole	616-47-7	FAC-002N	100 mg	FAC-002S-T	1 mL
2-Ethylimidazole	1072-62-4	FAC-003N	100 mg	FAC-003S-T	1 mL
2-Methylimidazole	693-98-1	FAC-004N	100 mg	FAC-004S-T	1 mL
4(5)-(Hydroxymethyl)imidazole	822-55-9	FAC-005N-25MG	25 mg	FAC-005S-M	1 mL
				100 µg/mL in MeOH	
				Quinoline (Internal Standard)	
				FAC-IS-T	1 mL
				50 µg/mL in Toluene	
				FAC-SET	6 x 1 mL





Food Analysis

Lipid Standards

Unsaturated Methyl Esters

99% Purity

Compound	CAS No.	NEAT 100 mg	10 mg/mL in Heptane SOLUTION 1 mL
Methyl cis-9-hexadecenoate (Palmitoleate) C16:1	1120-25-8	UFA-001N	UFA-001S
Methyl trans-9-hexadecenoate C16:1	10030-74-7	UFA-002N	UFA-002S
Methyl cis-6-octadecenoate (Petroselinate) C18:1	2777-58-4	UFA-003N	UFA-003S
Methyl trans-6-octadecenoate (Petroselaidate) C18:1		UFA-004N	UFA-004S
Methyl cis-9-octadecenoate (Oleate) C18:1	112-62-9	UFA-005N	UFA-005S
Methyl trans-9-octadecenoate (Elaidate) C18:1	1937-62-8	UFA-006N	UFA-006S
Methyl cis-11-octadecenoate (Vaccenate) C18:1	1937-63-9	UFA-007N	UFA-007S
Methyl 12-hydroxy-cis-9-octadecenoate (Ricinoleate) C18:1	141-24-2	UFA-008N	UFA-008S
Methyl linoleate (Linoleate) C18:2	112-63-0	UFA-010N *	UFA-010S
Methyl linolelaidate (Linoelaidate) C18:2	2566-97-4	UFA-011N *	UFA-011S
Methyl octadecadienoate (Conjugated) C18:2		UFA-012N *	UFA-012S
Methyl linolenate (Linolenate) C18:3	301-00-8	UFA-014N *	UFA-014S
Methyl g-linolenate (Gamma Linolenate) C18:3	16326-32-2	UFA-015N *	UFA-015S
Methyl trans-11-eicosenoate C20:1	69119-90-0	UFA-016N	UFA-016S
Methyl cis-8-eicosenoate C20:1	69119-99-9	UFA-017N	UFA-017S
Methyl cis-11-eicosenoate C20:1	2390-09-2	UFA-018N *	UFA-018S
Methyl cis-5-eicosenoate C20:1	20839-34-3	UFA-019N	UFA-019S
Methyl cis-11,14-eicosadienoate C20:2	2463-02-7	UFA-020N *	UFA-020S
Methyl cis-8,11,14-eicosatrienoate (Homogamma linolenate) C20:3	21061-10-9	UFA-022N *	UFA-022S *
Methyl cis-11,14,17-eicosatrienoate C20:3	55682-88-7	UFA-023N *	UFA-023S *
Methyl arachidonate (Arachidonate) C20:4	2566-89-4	UFA-024N *	UFA-024S
Methyl 5,8,11,14,17-eicosapentaenoate C20:5	2734-47-6	UFA-025N *	UFA-025S *
Methyl cis-7,10,13,16,19-docosapentaenoate (DPA) C22:5	108698-02-8	UFA-026N *	UFA-026S *
Methyl cis-13-docosenoate (Erucate) C22:1	1120-34-9	UFA-027N	UFA-027S
Methyl trans-13-docosenoate (Brassidate) C22:1	7439-44-3	UFA-028N	UFA-028S
Methyl cis-13,16-docosadienoate C22:2	61012-47-3	UFA-029N *	UFA-029S
Methyl cis-13,16,19-docosatrienoate C22:3	108698-01-7	UFA-030N *	UFA-030S *
Methyl cis-7,10,13,16-docosatetraenoate C22:4	13487-42-8	UFA-031N *	UFA-031S *
Methyl cis-4,7,10,13,16,19-docosahexenoate C22:6	301-01-9	UFA-032N *	UFA-032S *
Methyl cis-15-tetracosenoate (Nervonate) C24:1	2733-88-2	UFA-033N *	UFA-033S
		UFA-N-SET * 30 x 100 mg	UFA-S-SET * 30 x 1 mL

Lipid Standards analyzed by both GLC and TLC are supplied with complete analytical documentation.

Neats and Solutions are sealed under Nitrogen Blanket

* ColdPAK required to maintain integrity of product.

Saturated Methyl Esters

Compound	CAS No.	NEAT 100 mg	10 mg/mL in Hexane SOLUTION 1 mL
Methyl octanoate (Caprylate) C8:0	111-11-5	SFA-001N	SFA-001S
Methyl nonoate (Pelargonate) C9:0	1731-84-6	SFA-002N	SFA-002S
Methyl decanoate (Caprate) C10:0	110-42-9	SFA-003N	SFA-003S
Methyl undecanoate C11:0	1731-86-8	SFA-004N	SFA-004S
Methyl dodecanoate (Laurate) C12:0	111-82-0	SFA-005N	SFA-005S
Methyl tridecanoate C13:0	1731-88-0	SFA-006N	SFA-006S
Methyl tetradecanoate (Myristate) C14:0	124-10-7	SFA-007N	SFA-007S
Methyl pentadecanoate C15:0	7132-64-1	SFA-008N	SFA-008S
Methyl hexadecanoate (Palmitate) C16:0	112-39-0	SFA-009N	SFA-009S
Methyl heptadecanoate (Margarate) C17:0	1731-92-6	SFA-010N	SFA-010S
Methyl octadecanoate (Stearate) C18:0	112-61-8	SFA-011N	SFA-011S
Methyl 12-hydroxystearate C18:0	141-23-1	SFA-012N	SFA-012S
Methyl nonadecanoate C19:0	1731-94-8	SFA-013N	SFA-013S
Methyl eicosanoate (Arachidate) C20:0	1120-28-1	SFA-014N	SFA-014S
Methyl heneicosanoate C21:0	6064-90-0	SFA-015N	SFA-015S
Methyl docosanoate (Behenate) C22:0	929-77-1	SFA-016N	SFA-016S
Methyl tricosanoate C23:0	2433-97-8	SFA-017N	SFA-017S
Methyl tetracosanoate (Lignocerate) C24:0	2442-49-1	SFA-018N	SFA-018S
		SFA-N-SET 18 x 100 mg	SFA-S-SET 18 x 1 mL

Saturated Glycerides

Compound	CAS No.	NEAT 100 mg	Compound	CAS No.	NEAT 100 mg
Trioctanoin (<i>Caprylin</i>) C8:0	538-23-8	GS-001N	Dipalmitin C16:0	26657-95-4	GS-014N
Dicaprylin C8:0	36354-80-0	GS-002N	Monopalmitin C16:0	542-44-9	GS-015N
Caprylin C8:0	19670-49-6	GS-003N	Trioctadecanoin (<i>Stearin</i>) C18:0	555-43-1	GS-016N
Tridecanoin (<i>Caprin</i>) C10:0	621-71-6	GS-004N	Distearin C18:0	1323-83-7	GS-017N
Dicaprin C10:0	53988-07-1	GS-005N	Monostearin C18:0	22610-63-5	GS-018N
Monocaprin C10:0	26402-22-2	GS-006N	Triecosanoin (<i>Arachidin</i>) C20:0	620-64-4	GS-019N
Tridodecanoin (<i>Laurin</i>) C12:0	538-24-9	GS-007N	Diarachidin C20:0	60586-60-9	GS-020N
Dilaurin C12:0	27638-00-2	GS-008N	Arachidin C20:0		GS-021N
Monolaurin C12:0	142-18-7	GS-009N	Tridocosanoin (<i>Behenin</i>) C22:0	18641-57-1	GS-022N
Tritetradecanoin (<i>Myristin</i>) C14:0	555-45-3	GS-010N	Dibehenin C22:0		GS-023N
Dimyristin C14:0	53563-63-6	GS-011N	Behenin C22:0	6916-74-1	GS-024N
Monomyristin C14:0	589-68-4	GS-012N			GS-KIT
Trihexadecanoin (<i>Palmitin</i>) C16:0	555-44-2	GS-013N			24 x 100 mg

Food Analysis

Lipids, AOCS, NHI/NIH



Unsaturated Glycerides

Compound	CAS No.	NEAT 10 mg	Compound	CAS No.	NEAT 10 mg
Myristolein C14:1 cis		UG-001N	Linolein C18:2 cis,cis	537-40-6	UG-019N *
Dimyristolein C14:1		UG-002N	Dilinolein C18:2	30606-27-0	UG-020N *
Monomyristolein C14:1	56399-71-4	UG-003N	Monolinolein C18:2	2277-28-3	UG-021N *
Palmitolein C16:1 cis	20246-55-3	UG-004N	Linolenin C18:3 cis,cis,cis	14465-68-0	UG-022N *
Dipalmitolein C16:1	113728-10-2	UG-005N	Dilinolenin C18:3		UG-023N *
Monopalmitolein C16:1	37515-61-0	UG-006N	Monolinolenin C18:3	26545-75-5	UG-024N *
Petroselinin 6 C18:1 cis	3296-43-3	UG-007N	gamma-Linolenin C18:3 cis,cis,cis		UG-025N *
Dipetroselinin 6 C18:1		UG-008N	Digamma Linolenin C18:3		UG-026N *
Monopetroselinin 6 C18:1		UG-009N	Monogamma Linolenin C18:3		UG-027N *
Olein 9 C18:1 cis	122-32-7	UG-010N	Triicosenoin C20:1 cis	80380-39-8	UG-028N
Diolein 9 C18:1	25637-84-7	UG-011N	Dieicosenoin C20:1	102783-82-4	UG-029N
Monoolein 9 C18:1	111-03-5	UG-012N	Monoeicosenoin C20:1		UG-030N
Trielaidin 9 C18:1 trans	537-39-3	UG-013N	cis-11,14-Trieicosadienoin C20:2 cis,cis		UG-031N *
Dielaiddin 9 C18:1 trans	98168-52-6	UG-014N	Dieicosadienoin C20:2		UG-032N *
Monoelaidin 9 C18:1 trans	2716-53-2	UG-015N	Monoeicosadienoin C20:2		UG-033N *
Vaccenin 11 C18:1 cis		UG-016N			UG-N-SET *
Divaccenin 11 C18:1		UG-017N			33 x 10 mg
Monovaccenin 11 C18:1		UG-018N			

AOCS, Method Ce1-62 Animal & Vegetable Reference Mixes

AOCS Animal & Vegetable Reference NEAT Mixtures	Cat. No.	Unit
Mix 1: Suitable standard for corn, cottonseed, kapok, poppyseed, rice, safflower, sesame, soybean, sunflower and walnut oils	AOCS-001N *	100 mg
Mix 2: Suitable standard for hempseed, linseed, perrilla & rubberseed oils	AOCS-002N *	100 mg
Mix 3: Suitable standard for mustard seed, peanut and rapeseed oil	AOCS-003N *	100 mg
Mix 4: Suitable standard for NEATsfoot, olive and teaseed oils	AOCS-004N *	100 mg
Mix 5: Suitable standard for babassu, coconut, ouri-curi & palm kernel oils	AOCS-005N *	100 mg
Mix 6: Suitable standard for lard, beef tallow, mutton tallow and palm oil	AOCS-006N *	100 mg
AOCS Rapeseed Mix, Suitable standard for modern low erucic acid oils	AOCS-007N *	100 mg
	AOCS-SET *	7 x 100 mg

Methyl Ester (% Composition by Weight)

AOCS Reference Mix	Cat. No.	C8:0 Caprylate	C10:0 Caprate	C12:0 Laurate	C14:0 Myristate	C16:0 Palmitate	C16:1 Palmitoleate	C18:0 Stearate	C18:1 Oleate	C18:2 Linoleate	C18:3 Linolenate	C20:0 Arachidate	C20:1 Eicosenoate	C22:0 Behenate	C22:1 Erucate	C24:0 Lignocerate
RM-1 *	AOCS-001N					6.0		3.0	35.0	50.0	3.0	3.0				
RM-2 *	AOCS-002N					7.0		5.0	18.0	36.0	34.0					
RM-3 *	AOCS-003N				1.0	4.0		3.0	45.0	15.0	3.0	3.0		3.0	20.0	3.0
RM-4 *	AOCS-004N					11.0		3.0	80.0	6.0						
RM-5 *	AOCS-005N	7.0	5.0	48.0	15.0	7.0		3.0	12.0	3.0						
RM-6 *	AOCS-006N				2.0	30.0	3.0	14.0	41.0	7.0	3.0					
Rapeseed *	AOCS-007N				1.0	4.0		3.0	60.0	12.0	5.0	3.0	1.0	3.0	5.0	3.0

NHI/NIH Fatty Acid Methyl Ester Profiling Mixes

Methyl Ester (% Composition by Weight)

NHI/NIH Reference Mix	Cat. No.	C8:0 Caprylate 100 mg	C10:0 Caprate	C12:0 Laurate	C14:0 Myristate	C16:0 Palmitate	C16:1 Palmitoleate	C18:0 Stearate	C18:1 Oleate	C20:0 Arachidate	C22:0 Behenate	C24:0 Lignocerate	
NHI-A	NHI-001N					25.0	10.0		65.0				
NHI-B	NHI-002N					4.0	40.0		56.0				
NHI-C *	NHI-003N		1.5	3.0	6.0	12	19.4		24.9		33.2		
NHI-D	NHI-004N					11.8	23.6	6.9	13.1	44.6			
NHI-E	NHI-005N		6.3	9.1	12.0	23.3	49.2						
NHI-F *	NHI-006N					2.5	4.2		7.3		13.6	25.4	47.0

NHI-SET * 6 x 100 mg

Designed to test reliability of chromatographic system when performing quantitative analysis of Fatty Acids.

* ColdPAK required to maintain integrity of product.



Food Analysis

FAMES

Fatty Acid Methyl Esters (FAMES)

These mixes and kits are suitable for determining peak identification and establishing chromatographic retention times.

Saturated Straight Chain Kit

FAME-001-R1-KIT

10 units

Purity 99%, 100 mg each

Methyl caproate (C6:0)
Methyl caprylate (C8:0)
Methyl caprate (C10:0)
Methyl laurate (C12:0)
Methyl myristate (C14:0)
Methyl palmitate (C16:0)
Methyl stearate (C18:0)
Methyl arachidate (C20:0)
Methyl behenate (C22:0)
Methyl lignocerate (C24:0)

Saturated Straight Chain Kit

FAME-002-R1-KIT

19 units

Purity 99%, 100 mg each

Methyl caproate (6:0)
Methyl heptanoate (7:0)
Methyl caprylate (8:0)
Methyl nonanoate (9:0)
Methyl caprate (10:0)
Methyl undecanoate (11:0)
Methyl laurate (12:0)
Methyl tridecanoate (13:0)
Methyl myristate (14:0)
Methyl pentadecanoate (15:0)
Methyl palmitate (16:0)
Methyl heptadecanoate (17:0)
Methyl stearate (18:0)
Methyl nonadecanoate (19:0)
Methyl arachidate (20:0)
Methyl heneicosanoate (21:0)
Methyl behenate (22:0)
Methyl tricosanoate (23:0)
Methyl lignocerate (24:0)

Odd Carbon Straight Chain Kit

FAME-005-R1-KIT

9 units

Purity 99%, 100 mg each

Methyl heptanoate (C7:0)
Methyl nonanoate (C9:0)
Methyl undecanoate (C11:0)
Methyl tridecanoate (C13:0)
Methyl pentadecanoate (C15:0)
Methyl heptadecanoate (C17:0)
Methyl nonadecanoate (C19:0)
Methyl heneicosanoate (C21:0)
Methyl tricosanoate (C23:0)

Unsaturated Straight Chain Kit

FAME-003-R1-KIT *

14 units

Purity 99%, 10 mg each

Methyl myristoleate (14:1)
Methyl palmitoleate (16:1)
Methyl petroselinate (18:1)
Methyl elaidate (18:1)
Methyl cis-vaccenate (18:1, cis)
Methyl linoleate (18:2, cis)
Methyl linolelaidate (18:2, trans)
Methyl linolenate (18:3)
Methyl cis-11-eicosenoate (20:1)
Methyl arachidonate (20:4)
Methyl erucate (22:1)
Methyl cis-4,7,10,13,16,19-docosahexaenoate (22:6)
Methyl nervonate (24:1)
Methyl oleate (18:1)

Methyl Ester Mix #1

FAMQ-001 *

40 mg

Approximately 10 mg of each in a qualitative mix

4 comps.

Methyl 11-eicosenoate (20:1)
Methyl 11,14-eicosadienoate (20:2)
Methyl arachidonate (20:4)
Methyl 5,8,11,14,17-eicosapentaenoate (20:5)

Fatty Acid Methyl Ester Mix #2

FAMQ-002 *

50 mg

Approximately 10 mg of each in a qualitative mix

5 comps.

Methyl 11-eicosenoate (20:1)
Methyl 11,14-eicosadienoate (20:2)
Methyl 11,14,17-eicosatrienoate (20:3)
Methyl arachidonate (20:4)
Methyl 5,8,11,14,17-eicosapentaenoate (20:5)

Volatile Acid Standard Solution

FAMQ-004

1 x 100 mL

10mM of each component in deionized water with 2% MeOH

10 comps.

Formic acid Isovaleric acid
Acetic acid n-Valeric acid
Propionic acid Isocaproic acid (4-Methyl valeric acid)
Isobutyric acid Hexanoic acid (n-Caproic acid)
Butyric acid Heptanoic acid

Standards of Interest

For FAME standards refer to Biofuels in the Petrochemical section.

FAME Quantitative Standard Mix

FAMQ-005 *

1 x 1 mL

At stated conc. (mg/mL) in CH₂Cl₂ (total of 10 mg/mL)

37 comps.

Methyl butyrate (C4:0)	0.4
Methyl caproate (C6:0)	0.4
Methyl caprylate (C8:0)	0.4
Methyl caprate (C10:0)	0.4
Methyl undecanoate (C11:0)	0.2
Methyl laurate (C12:0)	0.4
Methyl tridecanoate (C13:0)	0.2
Methyl myristate (C14:0)	0.4
Methyl myristoleate (C14:1)	0.2
Methyl pentadecanoate (C15:0)	0.2
Methyl cis-10-pentadecenoate (C15:1)	0.2
Methyl palmitate (C16:0)	0.6
Methyl palmitoleate (C16:1)	0.2
Methyl Hheptadecanoate (C17:0)	0.2
Methyl cis-10-heptadecenoate (C17:1)	0.2
Methyl stearate (C18:0)	0.4
Methyl elaidate (C18:1n9t)	0.2
Methyl oleate (C18:1n9c)	0.4
Methyl linolelaidate (C18:2n6t)	0.2
Methyl linoleate (C18:2n6c)	0.2
Methyl arachidate (C20:0)	0.4
Methyl g-linolenate (C18:3n6)	0.2
Methyl cis-11-eicosenoate (C20:1)	0.2
Methyl linolenate (C18:3n3)	0.2
Methyl heneicosanoate (C21:0)	0.2
Methyl cis-11,14-eicosadienoate (C20:2)	0.2
Methyl behenate (C22:0)	0.4
Methyl cis-8,11,14-eicosatrienoate (C20:3n6)	0.2
Methyl erucate (C22:1n9)	0.2
Methyl cis-11,14,17-eicosatrienoate (C20:3n3)	0.2
Methyl arachidonate (C20:4n6)	0.2
Methyl tricosanoate (C23:0)	0.2
Methyl cis-13,16-docosadienoate (C22:2)	0.2
Methyl lignocerate (C24:0)	0.4
Methyl cis-5,8,11,14,17-eicosapentaenoate (C20:5n3)	0.2
Methyl nervonate (C24:1)	0.2
Methyl-cis-4,7,10,13,16,19-docosahexaenoate (C22:6n3)	0.2

* ColdPAK required to maintain integrity of product.

Food Analysis

FAMES, Vitamin, Preservative & Antimicrobial Standards



NEATS as stated, SOLUTIONS in 1 mL

Fatty Acid Ethyl Esters

Compound	CAS No.	Conc.	Matrix	Cat. No.
Ethyl arachidate	18281-05-5	100 mg	NEAT	FAEE-008N
		10 mg/mL	Hexane	FAEE-008S
Ethyl behenate	5908-87-2	100 mg	NEAT	FAEE-009N
		10 mg/mL	Hexane	FAEE-009S
Ethyl caprate	110-38-3	100 mg	NEAT	FAEE-003N
		10 mg/mL	Hexane	FAEE-003S
Ethyl caprylate	106-32-1	100 mg	NEAT	FAEE-002N
		10 mg/mL	Hexane	FAEE-002S
Ethyl erucate	37910-77-3	100 mg	NEAT	FAEE-011N
		10 mg/mL	Hexane	FAEE-011S
Ethyl heptadecanoate	14010-23-2	100 mg	NEAT	FAEE-015N
		10 mg/mL	Hexane	FAEE-015S
Ethyl laurate	106-33-2	100 mg	NEAT	FAEE-004N
		10 mg/mL	Hexane	FAEE-004S
Ethyl lignocerate	24634-95-5	100 mg	NEAT	FAEE-010N
		10 mg/mL	Hexane	FAEE-010S
Ethyl linoleate	544-35-4	100 mg	NEAT	FAEE-012N
		10 mg/mL	Hexane	FAEE-012S
Ethyl linolenate	1191-41-9	100 mg	NEAT	FAEE-016N
		10 mg/mL	Hexane	FAEE-016S
Ethyl linolenate gamma	31450-14-3	100 mg	NEAT	FAEE-020N
		10 mg/mL	Hexane	FAEE-020S
Ethyl myristate	124-06-1	100 mg	NEAT	FAEE-005N
		10 mg/mL	Hexane	FAEE-005S
Ethyl nervonate	137888-64-3	100 mg	NEAT	FAEE-013N
		10 mg/mL	Hexane	FAEE-013S
Ethyl oleate	111-62-6	100 mg	NEAT	FAEE-014N
		10 mg/mL	Hexane	FAEE-014S
Ethyl palmitate	628-97-7	100 mg	NEAT	FAEE-006N
		10 mg/mL	Hexane	FAEE-006S
Ethyl palmitoleate	56219-10-4	100 mg	NEAT	FAEE-001N
		10 mg/mL	Hexane	FAEE-001S
Ethyl stearate	111-61-5	100 mg	NEAT	FAEE-007N
		10 mg/mL	Hexane	FAEE-007S

Vitamin Standards

Water Soluble				Fat Soluble			
	CAS No.	Unit	Cat. No.		CAS No.	Unit	Cat. No.
Thiamine • HCl	B1 67-03-8	1 gram	VIT-001N	DL-a-Tocopherol	E 10191-41-0	100 mg	VIT-012N
Riboflavin	B2 83-88-5	1 gram	VIT-002N	Cholecalciferol	D3 67-97-0	100 mg	VIT-013N
Pyridoxine • HCl	B6 58-56-0	1 gram	VIT-003N	Retinol palmitate	A, Palmitate 79-81-2	100 mg	VIT-014N
L-Ascorbic acid	C 50-81-7	1 gram	VIT-004N	DL-a-Tocopherol acetate	7695-91-2	100 mg	VIT-015N
Nicotinic acid	Niacin 59-67-6	1 gram	VIT-005N	Phylloquinone	K1 84-80-0	100 mg	VIT-016N
Nicotinamide	98-92-0	1 gram	VIT-006N	Menaquinone	K2 863-61-6	100 mg	VIT-017N
Folic Acid	M 59-30-3	1 gram	VIT-007N	Menadiolone	K3 58-27-5	100 mg	VIT-018N
Calcium-D-pantothenate	B5 137-08-6	100 mg	VIT-008N	β-Carotene (Substantially free of alpha Carotene)	7235-40-7	10 mg	VIT-019N
d-Biotin	H 58-85-5	100 mg	VIT-009N-R1	D-a-Tocopherol succinate	E 4345-03-3	100 mg	VIT-020N
Cyanocobalamin	B12 68-19-9	25 mg	VIT-010N-R1	Ergocalciferol	D2 50-14-6	100 mg	VIT-022N
VIT-WSK-R1-SET				VIT-FSK-R2-SET			
10 units				10 units			

Technical Note

Always store Standards properly, away from light sources. Each Standard is provided with an actual lot analysis and additional transfer vial and label.

Preservative and Antimicrobial Standards

Compound	Purity	CAS No.	Unit	Cat. No.
Benzoic acid	99 %	65-85-0	1 gram	AP-001N
Sodium benzoate	99 %	532-32-1	1 gram	AP-002N
Potassium nitrite	97 %	7758-09-0	1 gram	AP-003N
Sodium nitrite	99 %	7632-00-0	1 gram	AP-004N
Sodium nitrate	99 %	7631-99-4	1 gram	AP-005N
Potassium nitrate	99 %	7757-79-1	1 gram	AP-006N
Methyl paraben	99 %	99-76-3	1 gram	AP-007N
Ethyl paraben	99 %	120-47-8	1 gram	AP-008N
Butyl paraben	99 %	94-13-3	1 gram	AP-009N
Propionic acid	99 %	79-09-4	1 gram	AP-010N
Sodium propionate	97 %	137-40-6	1 gram	AP-011N
Calcium propionate	97 %	4075-81-4	1 gram	AP-012N
Sorbic acid	99 %	110-44-1	1 gram	AP-013N
Potassium sorbate	99 %	24634-61-5	1 gram	AP-014N

AP-KIT

14 x 1 gram